# ASPECT-ENTERPRISE Virtual Appliance Installation Guide



SMART ENERGY CONTROL

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#### ASPECT-Enterprise (MAN0126 rev 9)

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www.cylon.com www.cylon-automatrix.com

UI Text:	Text that represents elemets of the UI such as button names, mer options etc is presented with a grey background and border, in Tahom font which is traditionally used in Windows UIs. For example: Ok
Standarc	Herms (Jargon): Text that is not English Language but instead refers t industry standard concepts such s Strategy, BACnet, or Analog Input represented in slightly condensed font. For example: BACnet
Code:	Text that represents File paths, Code snippets or text file configuratic settings is presented in fixed-width font, with a grey background an border. For example:
	<pre>\$config_file = c:\CYLON\settings\config.txt</pre>
L	
Paramet	<b>er values</b> : Text that represents values to be entered into UI fields, o displayed in dialogs is represented in fixed-width font with a shade background. For example 10°C
Paramet Product	er values: Text that represents values to be entered into UI fields, o displayed in dialogs is represented in fixed-width font with a shade background. For example 10°C Names: Text that represents a product name is represented in bol coloured text. For example
Paramet Product	er values: Text that represents values to be entered into UI fields, displayed in dialogs is represented in fixed-width font with a shade background. For example 10°C Names: Text that represents a product name is represented in bo coloured text. For example CBX-8R8-H
Paramet Product PC Keybo	er values: Text that represents values to be entered into UI fields, of displayed in dialogs is represented in fixed-width font with a shade background. For example 10°C Names: Text that represents a product name is represented in bot coloured text. For example CBX-8R8-H CBX-8R8-H

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# SECTION 1 : INTRODUCTION



This document provides details on the software installation and configuration of **ASPECT®-Enterprise** Virtual Appliance. The information found within reviews information regarding deployment of VM images, as well as target administration of the **ASPECT-Enterprise** itself. Please review this document carefully before proceeding.

## **Considerations Prior To Implementation**

To properly prepare for installation and deployment of **ASPECT-Enterprise** for **Virtual Machines**, please take the following considerations into account:

- 1. **ASPECT**<sup>®</sup> provides world-class server-based **BAS** solutions developed by Cylon and is routinely updated to include new features and enhancements to its technology. Regardless of whether or not you are deploying the virtual machine for the first time, please check to ensure you have the latest virtual machine images for **ASPECT-Enterprise**. If you are a building owner, please contact your Cylon Solution Integrator for assistance. If you are a Cylon Solution Integrator, please contact Cylon Technical Services by visiting the Cylon Toolbox and verifying product revisions.
- 2. Recommended System Requirements at the time of this document:
  - Dual 2.8Ghz Quad Core or 6-Core CPUs (Intel or AMD)
  - o 16GB System Memory
  - o 250GB+ SATA or SAS RAID Array (RAID 1 with hot spare suggested)
  - o Supported 10/100/1000 MB Ethernet Adapter (Intel or Broadcom® suggested)
  - o Redundant Power Supply Available USB port for Software License Key
- 3. VMware Platforms Supported at the time of this document
  - o VMware ESXi v5.0 or newer

Note: EXSI can be download from VMWARE <u>https://www.vmware.com</u>

- 4. Virtualisation Image Provisions
  - o Enterprise Class Linux OS
  - Embedded MySQL Database Server ASPECT Runtime Engine

# SECTION 2 : VMWARE IMAGE DEPLOYMENT



# PREPARING FOR IMAGE DEPLOYMENT

To deploy **ASPECT-Enterprise** onto a **VMware** environment, download the image from the Cylon Toolbox. The .zip file will contain images in either an OVA or OVF extension for newer releases of **VMware**. For older revision of **VMware**, an image with a VMX extension has also been provided to accommodate older versions of **VMware** that support the VMX image format.

To deploy the virtual appliance on **VMware** environments, you or an administrator must use the **vSphere**<sup>®</sup> Client Utility commonly provided with **VMware** ESX<sup>®</sup> 5.0 or higher. If you are deploying to an existing virtualization server, you must also have the appropriate permissions to access the server with the **vSphere** Client Utility. If you do not have this utility, please visit http://www.vmware.com for assistance with obtaining this utility. If you are unsure whether or not you have the appropriate permissions to access the virtualization server, please contact your network administrator for assistance.

Before installation, either copy the unzipped **VMware** image to a **USB** drive or have IT staff copy it over the network to the computer on which the **vSphere** Client Utility will be run. The images may be stored on any directory or drive. Alternatively, you may deploy the files directly from the **USB** drive itself. However, Cylon strongly recommends that you copy the files to your local PC for the most efficient deployment.

The downloaded content has the following file structure:

- ASPECT-Enterprise OVF Image contains all necessary OVF and OVA files for deployments
- ASPECT-Enterprise VMX Image contains all necessary VMX files for older VMware products

For either deployment method, please ensure that the drive you will deploy the image to has sufficient space for the image to expand as necessary.

Note: The minimum space recommended is 250GB+ SATA or SAS RAID Array (RAID 1 with hot spare suggested).

# DEPLOYING ASPECT-Enterprise TO VMWARE

The following deployment process is documented around the use of **vSphere** Client v5.0.0 and **VMware** ESXi v5.0.0. or later. Depending on the revision, screen shots and dialog boxes may vary. To deploy the image, perform the following steps:

5. With **vSphere** launched and connected to your virtualization server, select **File** > **Deploy OVF Template...** from the **vSphere Client** Utility.

1	92.168.50.18 - vSphere Client	
File	Edit View Inventory Admini	stration F
	New •	ntory 🕨
	Deploy OVF Template	
-	Export 🗟 🕨	
	Report •	aam-esx
	Browse VA Marketplace	Getting !
	Print Maps 🔹 🕨	Genera
	Exit	Manufa
		Model:
		CPU Co
		Process

6. Browse your system and find the Aspect\_Enterprise\_OVF10.ova file. In order to see OVA extension files, you may need to change the file type from OVF to OVA using the extension chooser in the bottom right-hand corner of the browser window.

Organize 🔻			= •	0
Videos	^ N	lame Files Currently on the Disc (1)	Date modified	Гуре
Computer	[] F•	AspectFT_Enterprise_OVF10.ova	9/29/2009 11:04 PM	OVA Fil
	Read of Contract o			
marketing (\\aa marketing (\\aa emotion Share (Y:) emotion (Z:)	in E	File Form	at Selector	

7. Follow the remaining instructions for the wizard.

# POST DEPLOYMENT

After installing and launching the virtual appliance, the virtual appliance dashboard and console can be displayed. By default, the virtual appliance will acquire an IP address using DHCP. This address is displayed on the dashboard, along with instructions to manage the application by browsing to a provided address (e.g. http://<ipaddress>:5840).

The use of the virtual appliance dashboard is not required. Some functions present in the virtual appliance dashboard are also part of **ASPECT-Enterprise**'s built-in Web User Interface (**webUI**) and are discussed later in this document.



ASPECT-Enterprise requires the use of a software license file.

**Note:** ASPECT-Enterprise version 3.01.01 and higher can support a "software unique ID (UID)" instead of a hardware-based unique ID. This is primarily to support virtual machine installations where the use of a USB device to furnish Aspect's license unique ID is not permitted by the site IT staff.

## **OBTAINING AND INSTALLING A LICENCE FILE**

- **Note:** Ensure that the **ASPECT-Enterprise** target has been upgraded to 3.01.01 or higher. This process will silently fail on **ASPECT** 3.01.00 and lower.
- **Note:** Ensure that the **ASPECT-Enterprise** server is at its required final IP address when carrying out this License Installation process. The active IP address is part of the calculation of the software UID and cannot be changed once the system is licensed, or the license validation will fail until a new license file is obtained.
- **Note:** The Site ID is also used in creating the License and cannot be changed afterward. This will be displayed in the sidebar of **ngAdmin**

Make a backup copy of the current license file on the target.

Upload the supplied **ASPECT-Enterprise Utility License** to the target, replacing any license or initial stub license already installed.



The Utility License has a deliberately and universally invalid ID - it cannot be used to run **ASPECT** services. The purpose of the Utility License is to force the license subsystem to display the actual software UID

Send the backup copy of the license file and the Hardware ID reported after the **Utility License** is installed to the Cylon Sales department to obtain the actual license for the **ASPECT-Enterprise** Target.

## Uploading the ASPECT-Enterprise Feature License

The Licence file provided by Cylon Sales is an encrypted text-based license file that can be viewed from the **WebUI** of **ASPECT-Enterprise** or read using any standard text editor.

Warning: Do not attempt to manually alter or adjust the text contents of the viewed from the WebUI of ASPECT-Enterprise license file. Attempting to do so will render the license invalid.

This file must be uploaded through ASPECT-Enterprise's WebUI. To do this, log into the WebUI.

Select Licensing > License from the WebUI tree .

The License Management page displays the current license status of the ASPECT-Enterprise instance, as well as a method to upload/download license files.

😨 Aspect Control Panel	License Management	
Instance 1     Instance 2     Database Management     Licensing     License	Hardware ID: 3-18462-1527 License ID: 3-18462-1527 License ID Match License Signature Valid	
Communication Setup     Simple Mobile Web Configuration     System Administration	Upload license file: Choose File No file chosen	Upload
🗉 🧰 System Logs	Contents of license file:	Downloa
	#THIS IS AN ENGINEERING TEST LIC #PROPERTY OF AMERICAN AUTO-M #UNAUTHORIZED USE OF THIS LICE # AAM Aspect Enterprise license file	CENSE ATIX INSE IS PROHIBITED
	# General Information	

Click **Browse** to locate the file on your PC.

Once located, click the Upload button to upload the license to ASPECT-Enterprise.

**Note:** When a license file is uploaded, Cylon recommends rebooting the **ASPECT-Enterprise** server to ensure the license file is successfully applied.

#### **APPLYING UPDATES TO ASPECT-ENTERPRISE**

The downloaded content may contain patch updates to your revision of **ASPECT-Enterprise**. These updates are contained within a folder called "Aspect Updates". These updates can be applied via the **ASPECT-Enterprise** WebUI. To apply update files, please refer to the procedural document provided within this folder for additional information.

# SECTION 3 : SOFTWARE CONFIGURATION



## INTRODUCTION

The following provides details on the software configuration of **ASPECT-Enterprise**. Please follow the steps contained within this section for proper setup and configuration.

# **TOOLS REQUIRED**

The following tools will be required for proper configuration of the system:

- PC/Laptop
- Ethernet cross-over cable, or other network connection to ASPECT-Enterprise
- Standard web-browser such as Windows Edge, Mozilla Firefox, Google Chrome, Apple Safari, or other.
- ASPECT-Enterprise Software License
- The license for your **ASPECT-Enterprise** Server may already be installed, provided that the End User License Agreement for the unit was signed and returned to Cylon's Inside Sales department prior to shipment.

# CONNECTING TO ENTERPRISE

**ASPECT-Enterprise** is installed with a default IP address and subnet mask. Your laptop's network card must be configured in a manner where it may access this IP network setting. Refer to your operating system documentation for details on how to configure your network card.

See Ethernet Settings on page 26 for details on how to reconfigure ASPECT-Enterprise server IP Address.

# LOG-IN

#### To log in to ASPECT-Enterprise:

- 1. With your PC's network card configured, open any standard web browser.
- 2. Browse to the IP address of ASPECT-Enterprise as defined during installation.
- 3. If your connection is successful, the main login page of **ASPECT** will be displayed:

Userr	ame	
Passv	vord	
	Log In	
	1	· 1 1

- 4. Enter the case-sensitive default username and password into the fields provided.
- 5. Click the Log In button.

## CONTROL PANEL

When you successfully log in, you will be directed to the **Control Panel**. The **Control Panel** contains a navigation tree to the left of the web user interface; allowing users to select different configuration areas of the product.

NEXUS Se	ries Cylon
Aspect Control Panel     Details Contro	Introduction Welcome to the configuration pages for Aspect. Select a link from the Aspect Control Panel tree on your left to access and manage your system

## **PROJECT INSTANCE**

One instance is available within the **ASPECT-Enterprise** This provides the capability to host a project within the target. Within the Instance, options exist for the following:

- Calendar Configuration
- Users and Groups
- Instance Services
- Persistence Manager
- Project Source
- Project Removal
- AspectFT Control Engine Logs
- License Item Status
- Project Performance

### **CALENDAR CONFIGURATION**

The **Calendar Configuration** area is used to configure **iCalendar** integration variables of the **ASPECT-Enterprise**. Within this section there are two pages:

- Calendar File
- Calendar User

#### **CALENDAR FILE**

**Calendar File** can be used to browse and modify what calendars have been previously published to the instance, as well as allow users to manually upload **iCalendar** files (with ICS file extensions) to the device.

- To upload a saved calendar file, simply select the **Browse** / **Choose File** button and locate the **iCalendar** file on your computer. Once located, click the Upload button.
- To delete a previously published calendar, place a checkmark next to the corresponding file and select the **Delete** button.



## **CALENDAR USER**

**Calendar User** provides the ability to change the default username and password credentials that are required to allow **iCalendar**-based tools to publish data to the **ASPECT-Enterprise**. By default, the username (calendar) and password (user) can be changed to any desired credential set. When referencing Calendars in **ASPECT-Studio**, these credentials must be specified in order to properly access the file.

A second development		·	
S Aspect Control Panel	Calendar Conf	iguration	
E G 1 - System lestEnterprise			
SystemTestEnterprise	Use the followin	ig form to configure the Ca	liendar username and password.
SystemTestEnterprise HTML			
🗉 💼 Users and Groups	Username	calendar	
🖮 🛅 Maverick	Password		
표 🧰 Mobile			
🖻 😋 Calendar Configuration	Confirm Password		
Calendar File		Submit	
Calendar User			
Persistence Manager			
Project Performance			
🗄 🛅 Database Management			

## **USERS AND GROUPS**

**Users** and **Groups** are included within the instance in the **ASPECT-Enterprise**. This provides the ability to manage users in the **ASPECT** instance it serves.

Aspect Control Panel	Calendar File Management			
SystemTestEnterprise	Upload and manage calendar fi	les stored on this dev	/ice. Calend	dar User credentials must be provided in order to download a calendar.
System restEnterprise HTML	Calendar file (.ics):			
	Choose File No file chosen	Upload		
🗉 🧰 Maverick	Calendar .ics files:	Date Modified	Delete	
🗉 🧰 Mobile	Monday thru Friday 8to5 Calendar.ic	July 27 2011 19:59:42		
🗉 🧰 Calendar Configuration				
			Delete	
— Persistence Manager	D			
Aspect Throttled Logs				
Project Performance				
🕀 🚞 Database Management				
🛱 🦳 Licensing 📃				

## **INSTANCE SERVICES**

The Instance Services provides users with the ability to restart the Aspect Control Engine for the instance. Only one option is available in the Instance Services drop-down, which will allow the instance to be reset.



#### PERSISTENCE MANAGER

The Persistence Manager area is used to manage and delete Persisted data. Persisted data is localized data stored from Persisted Elements that may be present in an ASPECT project.

😼 Aspect Control Panel	Manage Persisted Items
🖻 🚖 1 - STC14MapNexusBACnetPup	
	Select vMobile objects Select Persistence objects Select All objects Deselect All objects
STC14MapNexusBACnetPup I	Delete selected objects
🕀 🚞 Users and Groups	
🗈 🛅 Maverick	vMobile Persisted Properties Delete
🗄 🛅 Mobile	No Items Present
Calendar Configuration	
Instance Services	Persisted Items Delete
Persistence Manager	Cookie.db
Project Source	
Project Removal	
Aspect Control Engine Log	
Aspect Inrottled Logs	
Clicense Item Status	
Meroject Performance	
± Instance ∠	

## **PROJECT SOURCE**

The **Project Source** page provides administrators with the ability to download a password-protected copy of the **ASPECT** project deployed to the Instance. When selecting this in the **Control Panel**, you will be prompted to reenter your credentials in order to download a copy of the project. The required credentials will be the same as the ones used to originally deploy the project.

繴 Aspect Control Panel 🔄 😋 1 - Enterprise	Deployed Project Inf	ormation	
- 👧 Enterprise	Project Name	Deployment Date	Archive Size
Enterprise HTML	Enterprise.zip	2019-10-01 03:45:08	16.7 MB
Users and Groups			
🗉 🛅 Maverick			
🗈 🛅 Mobile			
Calendar Configuration			
Project Source			
Project Removal			
Aspect Control Engine Log			
Aspect Throttled Logs			
License Item Status			
Project Performance			
Database Management			

## **PROJECT REMOVAL**

The **Project Removal** page provides administrators the ability to remove a currently deployed project from an **ASPECT** instance.



## ASPECT CONTROL ENGINE LOG

The Aspect Control Engine log provides administrators and technicians with the ability to view project status and debugging information relating to the health of the deployed **ASPECT** project. Up to 10 pages of **ASPECT** logs are contained and individual logs can be downloaded.

Sepect Control Panel	Aspect Control Engine Log
SystemTestEnterprise	View Aspect Control Engine Logs.
SystemTestEnterprise HTML	aspect1.log ~ Change
averick Device Licensing ⊕ ⊖ Mobile	Select an Option To Filter the Log: All   Download the Aspect Control Engine log
🗈 🧰 Calendar Configuration	
	INFO : 2019-10-01 16:14:22,372 RESTART REQUEST RECEIVED watchDogTimeout=[3]
Persistence Manager	com.aamatrix.utii.LoggerUtii.inro(LoggerUtii.java:104)
Project Source	INFO : 2019-10-01 16:07:22,365 ScheduleDistributionQueue max retries exceeded for /C/N589_MapScheduleDistribution/Network_6
Project Removal	/006_001_UC32_24_CU24339035I/COV_Medium, giving up this distribution. com.aamatrix.util.LoggerUtil.info(LoggerUtil.java:164)
Aspect Control Engine Log	INFO : 2019-10-01 16:07:22,365 ScheduleDistributionQueue max retries exceeded for /C/N589_MapScheduleDistribution/Network_6
License Item Status	/006060CBX_8R8/DigVirt_16B_Schedule, giving up this distribution. com.aamatrix.util.LoggerUtil.info(LoggerUtil.java:164)
Project Performance	INFO : 2019-10-01 16:07:22.361 ScheduleDistributionOueue max retries exceeded for /C/NS89_ManScheduleDistribution/Network_5
Database Management	/005010CBM24/Schedule_1, giving up this distribution. com.aamatrix.util.LoggerUtil.info_LoggerUtil.java:164)
🕂 🖰 Licensina	

## LICENSE ITEM STATUS

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The License Item Status area provides the ability to view how many current license items a project may be using, as well as the maximum number of licenses available for a particular feature or function.

😼 Aspect Control Panel	Instance License	Status:	
🖻 😑 1 - STC14MapNexusBACnetPup			
	Token	Current	Max
STC14MapNexusBACnetPup I	ModbusRTUDevice	0	64
Users and Groups	LicensedDevices	64	64
H - Maverick	BACnetIPDevice	0	64
Calendar Configuration	VStat	0	128
instance Services	ETNetDevice	1	000000
Persistence Manager	LiconcodBointo	1247	4000
Project Source	LicenseuPoints	1247	4000
	ModbusIPDevice	0	64
	UnitronNetwork	0	4096
Aspect Throttled Logs	PupDevice	0	64
<u> </u>	BACnetDevice	0	64
Project Performance	FT	1	2
Database Management	LicensedAamnet	1	999999
E Licensing	SdpDevice	0	0
🗄 🦰 Modem Configuration	<u>.</u> .		

#### **PROJECT PERFORMANCE**

The **Project Performance** area provides the ability to dynamically view and monitor the status of **Threads**, **Maps**, **Serial Port Queue**, **Transaction Times** and **Ports** being used by the **ASPECT** project loaded into the target.

By default, all Tabs will update information every 15 seconds. You may adjust this update timer by choosing the **Settings** tab and changing the **Update Interval** Parameters.

Aspect Control Panel     → 1 - SystemTestEnterprise     → SystemTestEnterprise     → SystemTestEnterprise HTML     ⊕ Users and Groups     ☆ Maverick	Threads Maps	Port Is at 10	Pool ):18:45	Serial Port Qu	ueue Trans ) (Eastern	action Times Daylight Tir	Settings ne)			
Moverick Device Licensing     Mobile     Calendar Configuration	Total Targets:	i 1 Tin	nebase	Target Class	HashCode	Target Count	Elapsed Time (ms)	Last Tick Time (s)	Load 👻	
Persistence Services     Persistence Manager     Project Source     Project Removal		14.0	1	Default	1043272	1	16	9.8s ago	0.11%	
Aspect Control Engine Log     Aspect Throttled Logs     Vicense Item Status     Droject Performance     Database Management     Dicensing     Communication Setup										

# SECTION 4 : DATABASE MANAGEMENT

Database Management is the centralized location for all database storage and contains paths to **MySQL** administration and **SQLite** maintenance.

### **MYSQL ADMINISTRATION**

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Username - matrixac1

The **MySQL Administration** item in the webUI tree links to an administration interface for **ASPECT**'s **MySQL** Database Server. To access the Database Interface, the user must enter (case sensitive) login credentials. The default credentials are:

Password - aam MySQL » Server Language: English ~ Select database Adminer 4.7.3 DB:  $\sim$ Create database Privileges Process list Variables Status MySQL version: 5.1.73 through PHP extension MySQLi SQL command Import Export Logged as: matrixac1@localhost Database - Refresh Collation Tables Size - Compute Aspect latin1\_swedish\_ci 2 ? information\_schema utf8\_general\_ci ? ? 🔲 mysql latin1\_swedish\_ci ? phpmyadmin ? latin1\_swedish\_ci ? web\_configuration latin1\_swedish\_ci ? ? Selected (0)-Drop

**Note:** MySQL administration in ASPECT 3.03.02 and later uses Adminer. However, on devices running 3.03.01 or earlier the UI for MySQL administration is based on phpMyAdmin:



## **SQLITE MAINTENANCE**

The **SQLite Maintenance** page provides users with the ability to manage the **SQLite** database. This page shows the database files and sizes.

Aspect Control Panel	Database File Management
R Instance 2	Download and manage database files stored on this device.
Oatabase Management     MySQL Administration     SOLite Maintenance     Licensing     Modem Configue Database	Database File Size Delete Delete
<ul> <li>Simple Mobile Web Configuration</li> <li>System Administration</li> <li>System Logs</li> </ul>	

# Licensing

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The License page provides the ability to view the current license status of the **ASPECT-Enterprise** server as well as a method to upload/download license files. If a license file is uploaded, Cylon Controls recommends rebooting the **ASPECT-Enterprise** server to ensure the license file is successfully applied.

Spect Control Panel	License Management
Database Management     Licensing     Vicense     Device Licensing     License	Hardware ID: A6M-J351-HKV License ID: A6M-J351-HKV License ID Match License Signature Valid
Computation Setup     Computation     Computation     Simple Mobile Web Configuration     System Administration	Upload license file: Browse No file selected. Upload
Br Jysten Logs	# AAM Aspect Enterprise license file # General Information DateGenerated = 01/16/2019 HardwareID = A6M-J351-HKV HardwareType = 311 UIDBasedHWID = True Dealer = Cylon Controls Ltd CitaDP = Curtors Tect

# COMMUNICATION SETUP

The **Communication Setup** page provides administrators the ability to configure, BACnet IP Router, BBMD, Time Synchronization settings, and the Out of Service Manager Manager.

# **OUT OF SERVICE MANAGER (OSS)**

The **Out Of Service Manager (OSS)** provides a single location that allows administrators to manually mark devices out of service using the Manual OOS check boxes.

Aspect Control Panel	Commit OOS Set	ttings									
Database Management     Licensing	PUP Devices										
Communication Setup				Search:							
	Device	Last Transaction		oos	Manual OOS						
BACnet		No data avai	ilable in	table							
Simple Mobile Web Configurati					🚽 Previous Next ⊳						
System Administration	<b>BACnet Devices</b>										
⊡ Gystem Logs				Search:							
	Device	Last Transaction		OOS	Manual OOS						
	No data available in table										
					🚽 Previous Next 🔈						

## **BACNET SETTINGS**

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The **BACnet Configuration** area allows configuration of read/write retries, port configuration, and router settings for **BACnet/IP**.

Aspect Control Panel	BACnet Configuration					
Database Management	BACnet IP Configuration					
🗉 🦲 Licensing	UDP Port	47808				
E G Communication Setup	IP ADPU Timeout (seconds)	0.5 🔻				
BACnet     BACnet     BaCnet Settings     BBMD Settings     BmD Settings     Time Sync Settings     Syncle Mobile Web Configurati     System Administration	IP Write Retries	1 •				
	IP Read Retries	1 •				
	IP Out Of Service Time (seconds)	60 🔻				
	IP Discovery Timeout (seconds)	3 🔻				
	Cache Size	5000 🔻				
⊞ System Logs	BACnet Router Configuration					
	Device Name	Enterprise 192.168.4.5				
	BACnet Device Instance Number	168459				
	eSC Support	No 🔻				
	CBR Virtual Device Support	Yes T				
	BACnet Ethernet Enabled	No 🔻				
	BACnet IP Enabled	Yes T				
	BACnet IP Network Number	43724				
	BACnet Internal Network Number	50559				
	BACnet NAT Network Enabled	No 🔻				
	Segmentation Enabled	No 🔻				
	Router Debug Level	9 🔻				
	BACnet Debug Level	1 •				
		Submit				

## **BBMD SETTINGS**

The **BBMD settings** area is used to configure the **BACnet/IP Broadcast Management Device (BBMD)** table setup for **BACnet** networks.



### **MODBUS NETWORK PROPERTIES**

The Modbus Network Properties page is used to set the configuration for Modbus communications.

Aspect Control Panel	Modbus Network Properties						
Database Management	Modbus Configuration						
E-Consing	Modbus Timeout(seconds)	3.0	۲				
	Modbus Write Retries	0 •					
B- BACnet	Modbus Read Retries	0 •					
	Modbus Out Of Service Time (seconds)	60	•				
🗉 🛅 Simple Mobile Web Configurati	IP Gap Delay	20	•				
System Administration     System Logs		Subm	nit				

## TIME SYNC SETTINGS

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The Time Sync Settings area provides the ability to configure BACnet network time synchronizations.

# SYSTEM ADMINISTRATION

The **System Administration** area contains system settings for the **ASPECT-Enterprise**. These fields include the User Manager, System Services, System Status, System Updates, Ethernet Settings, Time Settings, Web Server Configuration, Process Status, and Image Proxy Configuration.

## USER MANAGER

The<br/>User Managerusers are provides fields to setup, add and remove administrative users from the ASPECT-Enterprise.Administrative users are granted full access to the<br/>instance are only allowed access to deployed projects.Aspect Control Panel<br/>while users/groups created within an<br/>while users/groups created within an<br/>while users/groups created within an<br/>instance are only allowed access to deployed projects.

Aspect Control Panel  Control Panel	Administrativ	ve Users ving form to man	age Administrator U	ser Names and Passwo	ords.	
Declassing     Communication Setup     Communication Setup     Simple Mobile Web Configuration     System Administration     Declassing	Username aamuser	Password	Delete Save			
System Services						

## SYSTEM SERVICES

The **System Services** area provides administrators with the ability to control key services relative to the target. Through this area, users can restart specific services of the **ASPECT-Enterprise**. Simply select an option from the drop-down and click **Submit**. A message will indicate that the service has been stopped/started/restarted successfully.

Aspect Control Panel	System Serv	vices	
I - System restEnterprise I - System restEnterprise I - Database Management	Start, stop, a	nd restart services.	
iii iii Licensing iii iii Communication Setup	Service	Select a Service 🗸	
🛛 🧧 Simple Mobile Web Configuration		Select a Service	Submit
System Administration		Ethernet - Restart	
		Services - Restart	
		System - Restart	
System Status		Web Server - Restart	
System Undates		1	

## SYSTEM STATUS

The **System Status** page provides details on the current health of the system including uptime, memory (**RAM**) utilization, disk space and all information pertaining to revision levels.

S Aspect Control Panel	Status	
🖮 🗀 Instance 1		
🗉 🗀 Instance 2	View system status details.	
<ul> <li>☐ Instance 2</li> <li>☐ Database Management</li> <li>☐ System Administration</li> <li>☐ System Administration</li> <li>☐ System Status</li> <li>☐ System Configuration</li> <li>☐ Tange Proxy Configuration</li> <li>☐ Image Proxy Configuration</li> <li>☐ System Logs</li> </ul>	View system status details.           Processor           Intel(R) Xeon(R) CPU E5620 @ 2.40GHz           Mac Address           00:0C:29:60:1C:A5           Memory           46% used: 340 M of 743 M           Disc usage           / on /dev/sda3 - 11% used: 2.0G of 20G           /dev/shm on tmpfs - 0% used: 0 of 372M           /boot on /dev/sda1 - 83% used: 98M of 124M	Uptime 39 days, 1:09, 0 users load average: 0.00, 0.00, 0.00           Serial Number           Aspect Version v3.0.0           Aspect Runtime Version Instance 1 - v3.0.0 - 910129 bytes Instance 2 - v3.0.0 - 910128 bytes           Supervisor Version R_30_00_00           PUP Driver Version R_30_00_00           Bancet Driver Version R_30_00_00           Bancet Driver Version R_30_00_00           Bancet Module Version R_30_00_00           Bancet Module Version R_30_00_00
		OS Version

•

## **PROCESS STATUS**

This shows the result of a top command which produces an updating list of current processes running.

Aspect Control Panel  Anotation  Anotation	top - Tasks Cpu(s Mem: Swap:	- 15:32 s: 90 t s): 0.4 760396 : 13106	:00 :ota 1%us 5k t 54k	up 1, 1 , 0. otal tota	39 da 	ys, 1 ing, 0.0% 452k 388k	:10, 89 si mi, 9 used, used,	0 100 99.	users ping, 5%id, 10944 35676k	, loa 0 st 0.1% k fre free	d averag opped, ( wa, 0.09 e, 4020) , 76868)	ge: 0.00, 0.00, ) zombie %hi, 0.0%si, 0. & buffers & cached	0.00 D%st
🗄 🗀 Simple Mobile Web Configuration	PID	USER	PR	NI	VIRT	RES	SHR	s	%CPU	%MEM	TIME+	COMMAND	
System Administration	1	root	20	0	19228	240	84	S	0.0	0.0	0:01.11	init	
System Services	2	root	20	0	0	0	0	s	0.0	0.0	0:00.00	kthreadd	
- System Status	3	root	RT	0	0	0	0	s	0.0	0.0	0:00.00	migration/0	
Process Status	4	root	20	0	0	0	0	s	0.0	0.0	0:23.03	ksoftirqd/0	
- 🖧 System Updates	5	root	RT	0	0	0	0	S	0.0	0.0	0:00.00	migration/0	
	6	root	RT	0	0	0	0	s	0.0	0.0	0:04.16	watchdog/0	
- 🔀 Backup/Restore	7	root	20	0	0	0	0	s	0.0	0.0	18:17.44	events/0	
Ethernet Settings	8	root	20	0	0	0	0	s	0.0	0.0	0:00.00	cgroup	
Network Diagnostics	9	root	20	0	0	0	0	S	0.0	0.0	0:00.00	khelper	
- Time Settings	10	root	20	0	0	0	0	s	0.0	0.0	0:00.00	netns	
Image Provy Configuration	11	root	20	0	0	0	0	S	0.0	0.0	0:00.00	async/mgr	
Those risky configuration	12	root	20	0	0	0	0	S	0.0	0.0	0:00.00	pm	

### SYSTEM UPDATES

The **System Updates** area is used to perform firmware upgrades to the **ASPECT** device. These firmware updates can be obtained from **Error! Unknown document property name.**.



Clicking on the **Continue** button opens the upload page:

Aspect Control Panel  Aspect Control Panel	Update System - File Upload Upload the ".aam" file and then submit the form to execute the system update. Update Aspect Choose File No file chosen
User Manager     System Services     System Status     Process Status     Solution Updates     Solution Update     Backup/Restore     Ethernet Settings     Network Diagnostics     Time Settings     Web Server Configuration     Image Proxy Configuration	

## **OS AUTO-UPDATE**

For troubleshooting purposes, the **OS Auto-Update** page is available.

This setting should remain at its default setting of Enabled, unless instructed by Cylon Technical Services to disable.

Aspect Control Panel	
Instance 1	YOM automatic updates and patches for OS:
🕀 🦳 Instance 2	(Does not update Aspect software)
Database Management     Licensing     Communication Setup	Enabled <u>Submit</u>
Simple Mobile Web Configuration	
System Administration	
-A User Manager	
- Process Status	
- System Updates	
- A OS Auto-Update	
Backup/Restore	
- Network Diagnostics	
- Ch Time Settings	
Image Proxy Configuration	
T C System Logs	

## **BACKUP/RESTORE**

÷

**Backup /Restore** provides the means to backup an **ASPECT** target's device configuration (network addresses, port and driver configuration, etc). To create a backup, simply click the **Download** button.

S Aspect Control Panel	Create Configuration Backup:
🗄 🧰 Instance 1	
🗄 🛅 Instance 2	Download
🗉 🛅 Database Management	
🖻 🦳 Licensing	Restore Backup File:
🖻 🚞 Communication Setup	
🖻 🚞 Simple Mobile Web Configuration	Choose File No file chosen Upload
🖻 😋 System Administration	
System Status	
OS Auto-Update	
Backup/Restore	
Ethernet Settings	

#### ETHERNET SETTINGS

The **Ethernet Settings** area permits for Ethernet address configuration of the **ASPECT-Enterprise**. The **ASPECT-Enterprise** can support static IP addresses or **DHCP** addressing from a valid **DHCP** server. Simply select the appropriate address setting for your application.

- To configure the device to use DHCP addressing, select the **Obtain an IP Address Automatically** radio button. In most DHCP environments, a resolvable DNS name or reserved **IP address** is assigned to the **ASPECT-Enterprise** by the local network administrator prior to configuring the device for this option.
- To configure the device to use a static IP address, select the Use the following IP Address radio button, then enter your IP address, Subnet Mask, Gateway, and DNS information into the boxes provided below.

🛃 Aspect Control Panel	Ethernet Settings
🖲 🗀 Instance 1	
🗉 🧰 Instance 2	Manage ethernet settings.
🔅 🗀 Database Management	
🗉 🧰 Licensing	Obtain an IP Address Automatically
🗈 🚞 Communication Setup	C Use the following IP Address:
🗉 🛅 Simple Mobile Web Configuration	TD Address
🖃 😋 System Administration	1F AUG (655
User Manager	Subnet Mask
System Services	Gateway
System Status	
System Undator	
Ethorpot Sottings	Preferred DNS Server
Network Diagnostics	Alternate DNS Server (Optional)
	Submit
Image Proxy Configuration	
🗄 📋 System Logs	

### **NETWORK DIAGNOSTICS**

The **Network Diagnostics** area contains useful troubleshooting methods for network connectivity problems without the need for additional tools.

Aspect Control Panel	Ping	
🗉 🧰 Instance 2	Ping Host:	
🗄 🚞 Database Management	Otest Direc Test   Otest Direc Desuits	
🕀 🦳 Licensing	Start Ping Test Clear Ping Results	
Communication Setup	<b>T</b>	
Simple Mobile Web Configuration	Iraceroute	
	Traceroute:	
System Services	Start Traceroute Clear Traceroute Results	
O System Status	ordan indecidate   oreal indecidate resoluto	
	DNS Test	
System Updates	Dito rest	
Aletwork Disconsting	Hostname:	
Time Settings	Start DNS Test Clear DNS Results	
Web Server Configuration		
Image Proxy Configuration	MySQL Test	
H- System Logs	Hostname:	
	Username:	
	Password:	
	Database:	
	Start MySQL Test Clear MySQL Results	

## TIME SETTINGS

The **Time/Date Settings** area allows users to configure the **ASPECT-Enterprise** Time and Date parameters. In this section, users can set the following items using the appropriate drop-downs and editors:

- System Time specified in military time
- System Date specified in MM/DD/YYYY
- TimeZone/Region specified in one of many configurable options
- Time Server Synchronization Specifies an NTP time server on the Internet with which to sync the system time. Refer to pool.ntp.org for information relative to other available NTP servers available.

Aspect Control Panel	Time/Date Settings		
Instance 1     Instance 2     Database Management     Licensing	Use the following forms to	configure time an	d date settings.
Communication Setup     Simple Mobile Web Configuration     System Administration	Set System Time	18 💌 54 💌	Submit
Oser Manager     Oser Manager     Oser Manager     System Services     Oser Manager     System Status     Oser Manager     System Updates     Liternet Settings	Set System Date	11/29/2011	Submit
	Set TimeZone/Region	Etc/UTC	Submit
	Time Server Synchronization	0.centos.pool.ntp.org	Submit
System Logs			
ten System Logs			

#### **Enterprise Host/VM NTP (Time Sync) Configuration**

Some installations of **ASPECT-Enterprise** experience time drift if the **VMWare ESXi** host is configured with **NTP** (Network Time Protocol) enabled. This section outlines the procedure for disabling **NTP** on the **ESXi** host and enabling it on **ASPECT-Enterprise** Virtual Machine.

**Note:** The following sections use an IP address of 192.168.4.59 for the VM as an example. Replace this with the actual IP address of your VM,

#### • To Disable Time Sync from the VM to the ESXi Host

From VMWare ESXi web interface - shutdown the Virtual Machine

Open <a href="https://192.168.4.61/ui/#/login">https://192.168.4.61/ui/#/login</a> in a web browser and login with the root credentials created during installation.

<b>m</b> ware" ESXi"	
VM ASPECT Enterprise v3.03 Appl     Iost     Manage     Monitor	ance successfully renamed - dismiss == Console Monitor   > Power on Shut down   Suspend Restart   / Edit   C Refresh   Actions ASPECT Enterprise v3.03 Appliance Guest OS Red Hat Enterprise Linux 6 (64-bit)
Citual Machines     I     ASPECT Enterprise v3 Monitor More VMs	Compatibility ESX/ESX 4.0 and later (VM version 7) VM/ware Tools Yes CPUs 2 Memory 4.1 GB Host name localhost
E Storage	Buttone     C      The configured guest OS (Red Hat Enterprise Linux 6 (64-bit)) for this virtual machine does not match the guest that is currently running (CentO?     optimizations.      A Actions
	General Information     Hardware Configure

Enable SSH on the VMWare ESXi host machine:

right-click Host , select services and select Enable Secure Shell (SSH)

<b>vm</b> wa	ire <sup>®</sup> ESXi <sup>®</sup>		
ି 🖫 Navig	ator 🗆	Enterprise	
Ho Ma Mc • 🔂 Vir • 🗇	Host Host Host Host Kegister VM Keboot Keboot Keses Ketrices Ketrices	Get vCenter Server 1 1 Center Server 1 Center State: Uptime:	reate/Register VM   🚡 Shut down 💽 Reboot   C Refresh   🏠 Actions 6.7.0 (Build 8169922) Normal (not connected to any vCenter Server) 1.18 days
🕞 🧕 Ne	🖺 Lockdown mode	lardware	
	🍇 Permissions	lanufacturer	TOSHIBA
	👧 Gonorato support hundlo	lodel	TECRA R950
	Generate support buildle	CPU	2 CPUs x Intel(R) Core(TM) i7-3520M CPU @ 2.90GHz
	Get SSH for Chrome	Memory	7.95 GB

With any SSH client (e.g. Bitvise or PuTTY) log in to the VMWare ESXi Host as root credentials created during installation.

ssh 192.168.4.61

Find the .vmx file

```
find / -name "*.vmx"
```

The output should be something like

/vmfs/volumes/5a1ee46e-a7a3a9e8-62d6-6c626d4d4c8f/Enterprise/Enterprise.vmx

Edit the .vmx file using vi

vi /vmfs/volumes/5alee46e-a7a3a9e8-62d6-6c626d4d4c8f/Enterprise/Enterprise.vmx

• change the following:

tools.svncTime				
time.synchronize.continue				
.rest	ore	=	"FALSE"	
time.synchronize.resume.disk				
time.synchronize.shrink				
.tool	s.startup	=	"FALSE"	
[esc]	then enter	:wq	!)	
	.cont: .resto .resu .shri .tool: [esc]	.continue .restore .resume.disk .shrink .tools.startup [esc] then enter	= .continue = .restore = .resume.disk = .shrink = .tools.startup = [esc] then enter :wq	

• Find the VMid of the Enterprise server

Logged in as root:

#### vim-cmd vmsvc/getallvms

Output:

Vmid Name File Guest OS Version Annotation

1 Enterprise [Datastore1] Enterprise/Enterprise.vmx centos64Guest vmx-07 With the Aspect control engine you are not limited to just one solution. Aspect is based upon open-standards used within multiple industries. Designed to perform control sequences and building management routines from an array of device platforms, Aspect can communicate utilizing drivers such as BACnet<sup>®</sup>, MODbus<sup>®</sup>, and PUP. Through varying aspects of the software, users can scale their projects based on the size as well as hardware, and still receive the level of sophistication and control they expect.

This shows the Vmid to be 1.

Reload the .vmx file

vim-cmd vmsvc/reload 1

Restart the VM



• Verify that the DNS server configuration is correct in the ASPECT WebUI

Current DNS server is shown in the Ethernet Settings:

earch inclusion		
Sapect Control Panel	thernet Settings	
1 - SystemTestEnterprise	anage othernet settings	
🗄 🔄 Database Management	anage ethernet settings.	
Licensing	O objecto de 10 a deberer a de escableralle.	
Communication Secup	O Obtain an IP Address Automatically	
Simple Mobile Web Configuration	Use the following IP Address:	
System Administration	IP Address 192 . 168 . 4 . 59	
👸 User Manager		
- 🔛 LDAP Configuration	Subnet Mask 255 . 255 . 0	
🙆 System Services	Gateway 192 . 168 . 4 . 253	
🔘 System Status		
🖧 System Updates	Preferred DNS Server 192 . 108 . 0 . 3	
	Alternate DNS Server (Op	tional)
- Backup/Restore	Submit	
- Ethernet Settings		
Network Diagnostics		
- Children Settings		
a c c		

Verify the DNS server name from the system administrator or run ipconfig /all from a windows server on the network.

Connection-specific DNS Suffix .:
Description Intel(R) Wireless-AC 9560
Physical Address
DHCP Enabled Yes
Autoconfiguration Enabled : Yes
IPv6 Address
Temporary IPv6 Address : 2606:a000:1215:c6bc:95a8:fc84:e94b:5c86(Preferred)
Link-local IPv6 Address : fe80::29c6:606c:2e30:2206%6(Preferred)
IPv4 Address
Subnet Mask
Lease Obtained Wednesday, October 2, 2019 1:09:04 PM
Lease Expires Thursday, October 3, 2019 1:09:05 PM
Default Gateway fe80::4eed:fbff:feae:6978%6
192.168.1.1
DHCP Server
DHCPv6 IAID
DHCPv6 Client DUID
DNS Servers
192.168.1.1
NetBIOS over Topip

Verify that the DNS server IP address is correct as follows:

😼 Aspect Control Panel	Ping	
🗈 💼 1 - Enterprise	n mg	
🗉 📋 Database Management	Ping	
Licensing	Host:	
Communication Setup	Start Ping Test Clear Ping Results	
Simple Mobile web Configuration		
System Administration	Traceroute	
BIDAR Configuration	Terroreta	
System Services		
System Status	Start Traceroute Clear Traceroute Results	
Process Status		
- 👩 System Updates	DNS Test	
🛕 OS Auto-Update	Hostname: 192 168 1 1	
Backup/Restore		
Ethernet Settings	Start DNS Test Clear DNS Results	
	Server: 192.168.1.1	
Web Convertings	Address: 192.168.1.1#53	
Web Server Configuration	1 1 168 192 in-addr area name = router asus com	
Timage Provy Configuration	TTTTOTTSETTR during a name i router rususteom	
Acknowledgements		
CalDAV Server Configuration	MySQL Test	
🗄 🧰 Debug Settings	Hostname:	
	Username:	
	Password:	
	Database:	
		1
	Start MySQL Test Clear MySQL Results	
1		

**Note:** Select Network Diagnostics from the **ASPECT-Enterprise** Control Panel tree, enter the DNS IP address from the Ethernet configuration screen and click on Start DNS Test. If the screen shows as specified above, the IP address is valid and you have a connection to good DNS Server. If the IP address is not a valid DNS Server, the black screen will be blank.

• Setup Time sync server on the VM in the ASPECT WebUI

S Aspect Control Panel	Time/Date Settings		
- 🏠 ModbusSpikeTestMatrix30106	, 5		
- 🖉 ModbusSpikeTestMatrix30106 HT	Use the following forms to	o configure time and date	settings.
🗄 🧰 Users and Groups			
🗄 🚞 Calendar Configuration			
🗄 🧰 Mobile			
🗉 💼 Database Management	Set System Time	13 • 47 •	Submit
🗈 💼 Licensing			
🖻 🛅 Communication Setup			
🖻 😋 System Administration	Set System Date	10/16/2018	Submit
	Cat Time Zana (Daalaa	Et-UTO -	Out with
System Status	Set Timezone/Region	Elc/OTC •	Submit
Process Status			
	Time Server Synchronization	3.ie.pool.ntp.org	Submit
Project Performance			
System Updates			
Backup/Restore			
Persistence Manager			
Project Removal			
Project Source			
Ethernet Settings			
Time Cettings			
Web Conver Configuration			

The NTP time server is toggled off by removing the time server name in the Time Server Synchronization field and clicking submit. And it is toggled back on by setting server name with a valid NTP host name or IP address.

The process for configuring NTP on an Aspect target is as follows:

- 1. Toggle the NTP service off
- 2. Set the system date to the current date and click submit
- 3. Set the system Time zone to your timezone and click submit
- 4. Set the system time to the current time and click submit
- 5. Toggle the NTP service on enter a valid NTP server IP address or hostname and click submit

Failure to configure NTP and related parameters in this sequence could cause NTP to panic and subsequently shutdown effectively decommissioning the NTP service completely

## WEB SERVER CONFIGURATION

The Web Server Configuration area is used to set a label for the login screen and to change port settings for the following:

- Aspect Control Panel defaults to port 80 (HTTP)
- Aspect Control Engine defaults to port 7226

**Note:** Make sure that each port change is saved, to avoid 2 services responding to the same port. This may cause connection access to that service to be lost.

Aspect Control Panel  Control Panel	Web Server Configura Configure web server se	ation ttings.		
Gimmunication Secup     Simple Mobile Web Configuration	Device Label	Enterprise	Submit	
System Administration	Port	80	Submit	
	Aspect Control Engine Port	7226	Submit	
	Simple Mobile Web Port	8080	Submit	
System Updates				
Backup/Restore				
Web Server Configuration     Web Server Configuration				

## WEB SERVER SSL CONFIGURATION

The SSL Certificate Management page allows SSL certificates to be generated or uploaded.

State       Control Panel         Image: Control Panel       SSL Certificate Management         Database Management       Manage Port         Communication Setup       Ssystem Administration         System Mobile Web Configuration       Aspect Target Admin UI         System Status       System Status         System Status       System Updates         System Vort Diagnostics       Save						
Database Management     Dicensing     Database Management     Dicensing     Dicensing     Sorred Configuration     System Administration     Output Manager     User Manager     System Status     System Updates     Sorred Database     SorredDatabase     Sorred Database     SorredDa	Sapect Control Panel ⊕ □ 1 - SystemTestEnterprise	SSL Certificate Management				
Communication Setup  Solution  Solu	Database Management	Manage Port Create Self-Signed Cert	Import Existing Cert			
Simple Mobile Web Configuration     System Administration     User Manager     UDAP Configuration     System Services     System Services     System Updates     System Update     Save	🗉 🫅 Communication Setup					
System Administration System Manager System Services System Services System Updates So SAuto-Update Bethernet Settings Server Conformation Server	🗈 🛅 Simple Mobile Web Configuration					
Aspect larger Admin Ul	🖻 😋 System Administration	A				
UDAP Computation O System Services System Status Save System Updates O S Auto-Update Behavior Diagnostics O The Settings Web Server Configuration	User Manager	Aspect Target Admin UI	•			
System Services     System Status     Sove     Social Services     Sove     Sove     Social Services     Sove	LDAP Configuration	Use First Aspect Instance				
Size Status Save	System Services					
O S Auto-Updates     O S Auto-Update     Backup/Restore     Ethernet Settings     O, The Settings     O, The Settings     O, The Settings	Drocess Status	Save				
OS Auto-Update Backup/Restore Hthmet Settings Ketwork Diagnostics Get The Settings						
Backup/Restore Backup	OS Auto-Update					
Ethemet Settings Network Diagnostics Nime Settings Nime Settings	Backup/Restore					
Network Diagnostics     One Settings     Server Configuration						
Web Server Configuration	- 🐏 Time Settings					
	Web Server Configuration					
Web Server SSL Configuration	Web Server SSL Configuration					
- Trage Proxy Configuration	Image Proxy Configuration					

## **IMAGE PROXY CONFIGURATION**

The Image Proxy Configuration page permits users to enable or disable image proxy, allowing **ASPECT** to access external sites to retrieve graphics.

SASPECT Control Panel	Image Proxy Access
E C Instance 2	Use the form to enable or disable image proxy access.
Database Management	C Proxy Enabled
🗄 🧰 Communication Setup	© Proxy Disabled
Gimple Mobile Web Configuration     Gimple Mobile Web Configuration	Save
User Manager	P
System Status	
Ethernet Settings	
Web Server Configuration	
🗄 🦳 System Logs	

The System Logs area provides users with the ability to view and download messages generated by the ASPECT-Enterprise and the Aspect control engine. The System Logs area provides three logs:

- System Log contains information processed by the sub-level operating system outside of Aspect
- Diagnostic Buffer provides kernel operating system output for the device. The information shown here is for diagnostic purposes and may be referenced during troubleshooting sessions with Cylon Technical Services. No configurable properties or values are present in this area.
- Remote Logging The Remote Logging page is used to allow or disallow centralized syslog messaging. All Aspect targets support the ability to send their log information to a centralized Aspect target or IT-supported syslogserver.
- Update Log- shows any recent YUM updates in the system.

## **DIAGNOSTIC BUFFER**

-

The Diagnostic Buffer provides diagnostic information regarding the ASPECT-Enterprise hardware and OS details.

S Aspect Control Panel	Diagnostic Buffer	-
G Instance 1     G Instance 2     G Database Management     G Licensing	View the output of kernel's diagnostic buffer Download the output of the buffer	_
Communication Setup     Simple Mobile Web Configuration     System Logs     System Logs     System Log     System Log     Update Log	Linux version 2.6.18-274.7.1.el5 (mockbuild@builder10.centos.org) (gcc version 4.1.2 20080704 (Red Hat 4.1.2-51)) #1 SMP Thu Oct 20 16:20:37 EDT 2011 BIOS-provided physical RAM map: BIOS-se20: 0000000000000000 - 00000000000000 (reserved) BIOS-e820: 0000000000000000000000000 (reserved) BIOS-e820: 00000000000000000000000000 (reserved) BIOS-e820: 00000000000000000000000000000000000	

## **REMOTE LOGGING**

The **Remote Logging** page is used to allow or disallow centralized syslog messaging. All **ASPECT** targets support the ability to send their log information to a centralized **ASPECT** target or IT-supported syslog server.



## SYSTEM LOG

The **System Log** area provides complete syslog information for the hardware. Information provided within this log includes boot up details and lower level information regarding runtime of the system.

SAspect Control Panel	System Logs	-
⊕-⊖ Instance 1 ⊕-⊖ Instance 2	View System Logs.	-
🗈 💼 Database Management 🗈 💼 Licensing	Download the System log	
Communication Setup Simple Mobile Web Configuration	Nov 29 18:55:52 localhost kernel: usb 1-1: reset full speed USB device using uhci_hcd and address 2	
🗈 🛅 System Administration 🖃 😋 System Logs	Nov 29 18:51:37 localhost kernel: usb 1-1: reset full speed USB device using uhci_hcd and address 2	
Diagnostic Buffer     Remote Logging	Nov 29 18:48:25 localhost kernel: usb 1-1: reset full speed USB device using uhci_hcd and address 2	
System Log Update Log	Nov 29 18:47:30 localhost AspectWeb[2131]: BACnet Configuration modified: aamuser @ 10.10.2.1 (Mozilla/5.0 (Windows NT 6.1) AppleWebKit/535.2 (KHTML, like Gecko) Chrome/15.0.874.121 Safari/535.2)	
	Nov 29 18:47:29 localhost kernel: ip_conntrack version 2.4 (8192 buckets, 65536 max) - 228 bytes per conntrack	
	Nov 29 18:47:29 localhost kernel: Netfilter messages via NETLINK v0.30.	
	Nov 29 18:47:29 localhost kernel: ip_tables: (C) 2000-2006 Netfilter Core Team	
	Nov 29 18:47:29 localhost kernel: Removing netfilter NETLINK layer.	

## **UPDATE LOG**

The Update Log shows all recent updates to the Operating System.

Sapect Control Panel	Update Log	-
	View Package Update Logs	
Database Management     Database Management     Licensing     Simple Mobile Web Configuration     System Administration	yum.log Change	
	Download the update log	
Diagnostic Buffer	Nov 29 16:51:31 Installed: kernel.i686 2.6.18-274.12.1.el5	
Remote Logging	Nov 28 04:15:45 Updated: mkinitrd.i386 5.1.19.6-71.el5_7.1	
= System Log	Nov 28 04:15:45 Updated: openIdap.i386 2.3.43-12.el5_7.10	
	Nov 28 04:15:44 Updated: device-mapper-multipath.i386 0.4.7-46.el5_7.2	
	Nov 28 04:15:43 Updated: kpartx.i386 0.4.7-46.el5_7.2	
	Nov 28 04:15:43 Updated: glibc.i686 2.5-65.el5_7.1	
	Nov 28 04:15:41 Updated: nash.i386 5.1.19.6-71.el5_7.1	
	Nov 28 04:15:40 Updated: glibc-common.i386 2.5-65.el5_7.1	
	Nov 22 04:42:59 Updated: ntp.i386 4.2.2p1-15.el5.centos.1	
	Nov 22 04:41:58 Updated: kudzu.i386 1.2.57.1.26-1.el5.centos.1	





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